

## □ Xenon Arc Weathering Test Chamber



XL-S-750

### Temperature Range

Ambient ~ 100°C ± 2°C

### Humidity Range

50% ~ 98% RH

### Irradiance

35 ~ 150 W/m<sup>2</sup>

### BPT

35°C ~ 85°C ± 2°C



Paintings & coatings



Plastic



Textile

## 【Technical Parameter】

Model	XL-S-750	
Internal Dimension (mm)	950*950*850 mm	
Overall Dimension (mm)	1300*1420*1800 mm	
Specimen Holder Size(mm)	95*200	
Specimen Capacity	42pcs	
Chamber Type	Rotating Holder	
Irradiation Source	1 piece of 4500w water-cooled xenon arc lamp with inner quartz and outer borosilicate filter	
Parameter	Irradiance Range	35~150 W/m <sup>2</sup>
	Bandwidth Measurement	300nm~400nm (340nm or 420nm)
	Chamber Temperature Range	Ambient ~ 100 °C ±2°C
	Black Panel Temperature	BPT 35 ~ 85 °C ±2°C
	Humidity Range	50% ~ 98% RH
	Humidity Deviation	± 5% RH
	Water Spray Cycle	1~9999H59M (Adjustable)
Constructure	Controller	Programmable color LCD touch screen controller
	Water supply system	Automatic water supply
		Water purification system
	Build-in Water Tank(mm)	270*300*900
	View Window Size(mm)	250*330
	Air Circulation	Centrifugal wind fan
	Radiometer	UV Radiometer, Tolerance: ±5%
	Heating Element	Nichrome heater
	Cooling System	Mechanical compression refrigeration system
	Refrigerating Unit	French TECUMSEH compressor
	Humidification System	External isolation, stainless steel surface evaporation humidifier
	Air Circulation	Centrifugal wind fan
	Safety Device	Over-temperature Protection; Over-current Protection; Water Shortage Protection; Earth leakage Protection; Phase Sequence Protection
Material	Exterior Material	Steel plate with protective coating
	Interior Material	SUS304 stainless steel
	Thermal Insulation	Polyurethane foam and insulation cotton
	Observation Window	Interior lighting, double-layer thermo stability silicone rubber sealing
Power Supply	AC380V 50Hz	
Maximum Noise	65 dBA	
Environmental Conditional	5°C~+35 °C ≤85% RH	

**Standard:** AATCC TM16,AATCC TM169,ASTM C1257,ASTM C1442,ASTM C1519,ASTM C732,ASTM C734,ASTM C793,ASTM D1148,ASTM D1670,ASTM D2565,ASTM D3424,ASTM D3451,ASTM D4101,ASTM D4303,ASTM D4355,ASTM D4434,ASTM D4459,ASTM D4798,ASTM D4811,ASTM D5019,ASTM D5071,ASTM D5383,ASTM D5398,ASTM D5819,ASTM D6083,ASTM D6551,ASTM D6577,ASTM D6662,ASTM D6695,ASTM D6878,ASTM D7356,ASTM D750,ASTM D7869,ASTM D882,ASTM D904,ASTM D925,ASTM F1164,ASTM F1515,ASTM F2366,ASTM G151,ASTM G155,GM 9125P,ISO 105-B07/B10,ISO 11341,ISO 12040,ISO 29664,ISO 4892-1 ,ISO 4892-2 ,SAE J2412,SAE J2527,VW PV 1306,VW PV 3929,VW PV 3930

\* It's the fourth-generation upgraded xenon test chamber.



## 1. Workroom

The internal material is 304 stainless steel, mirror surface, rust-proof to high and low temperature and moisture corrosion resistance.  
 Nice ruggedness and long life.



## 4. Viewing Window

Double layer insulating glass 8cm thickness, made of tempered glass.  
 The conductive film is located on the interior glass to prevent window frosting, built-in LED light for the work room lighting ;can clearly observe samples.  
 The light control button is located below the controller.



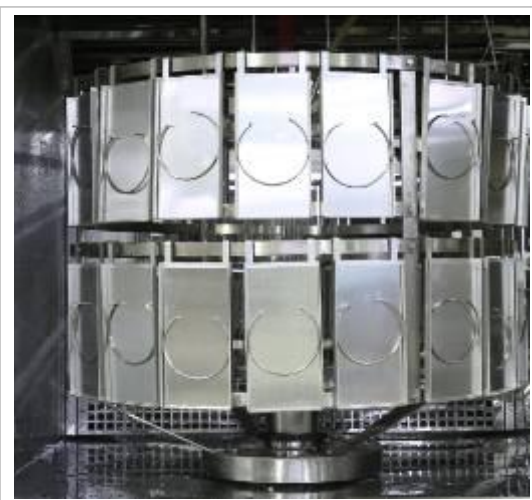
## 7. Automatic Water Inlet

Automatic control of the water intake of equipment, the customer can be directly connected to the laboratory faucet, so as to achieve automated testing;  
 Automatic inlet diameter 1/2 inch (13.5mm);  
 High and low water level alarm, water shortage lights and sound.  
 Standard 2 meter drain pipe.



## 2. Rotating Specimen Holder

Inside there is a rotating specimen holder, which rotates around the xenon lamp, so that the irradiance received by the specimen is relatively uniform during the test. Total can mount 42 pieces of specimen.



## 5. Controller

PID programmable color touch screen controller, network connection computer.  
 Can edit 120 programs 100 segments.  
 LIB also can preset program into the controller based on user testing requirements.  
 The set system language is English for standard.



## 8. Castor

Install 4 castors for ease moving, and with brakes function.  
 Caster height adjustable.



## 3. Irradiation Source

Irradiation Source with 1 piece of 4500 W water-cooled xenon lamp with inner quartz and outer borosilicate filter  
 Average Lamp Life is 1600 hours.



## 6. Water Re-circulation

Water purifier: mainly purification from water source to water tank.  
 Water re-circulation system that reduced water use and a series of water pipes



## 9. Insulation

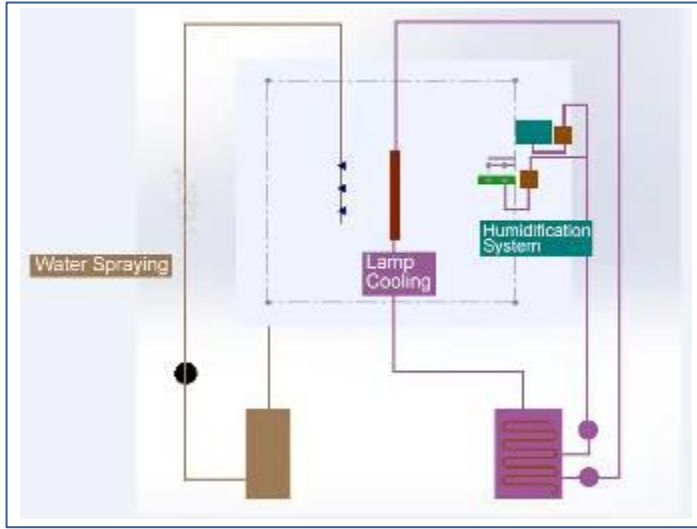
10cm thick polyurethane foam and insulation cotton;  
 Better insulation performance, degradation resistance, environmental protection, noise reduction.



## 10. External Materials

A3 steel plate with galvanized coating;  
 Electrostatic treatment; High and low temperature corrosion resistance; High hardness, anti - impact  
 Very high safety factor;  
 Color can be customized.

## Core Function



**Water Way System**

Two independent water way systems, one water tank supplies water to the lamp cooling and humidification system, and the other water tank supplies water to the water spray.



**Water Spray System**

The water spray pipe is equipped with three nozzles, the diameter of the nozzle is 0.5mm, the settlement is 0.8 ~ 1.0mm / 80cm<sup>2</sup> / H, and the flow rate is 0.3L / min, which simulates the outdoor moisture damage to the material. Can be customized to front and rear spraying.



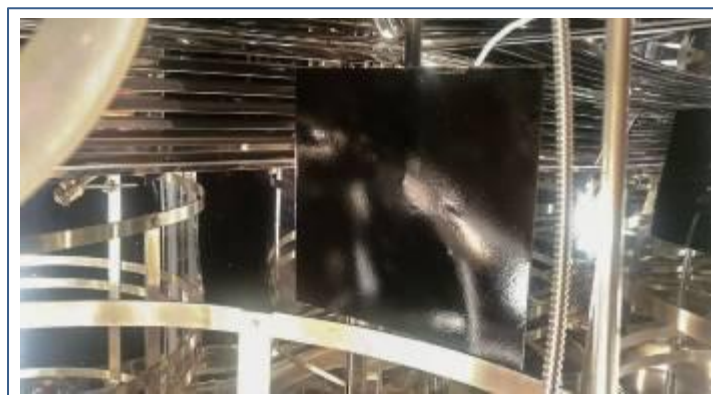
**Cooling System**

After the liquid refrigerant absorbs the heat of the cooled object in the evaporator, it is vaporized into low-temperature and low-pressure steam, sucked by the compressor, compressed into high-pressure high-temperature steam, discharged into the condenser, and radiated to the cooling medium in the condenser, condensed into a high-pressure liquid, throttling through a throttle valve into a low-pressure low-temperature refrigerant, and again entering the evaporator to absorb heat and vaporize, to achieve the purpose of cycle refrigeration. In this way, the refrigerant completes a refrigeration cycle through four basic processes of evaporation, compression, condensation, and throttling in the system.



**Radiometer**

UV Irradiance Radiometer is available for xenon test chamber. The radiometer is a photoelectric sensor with fast response, reliable performance and high accuracy.



**Black Panel Thermometer**

The blackboard thermometer is composed of a stainless steel flat plate with a length of 150 mm, a width of 70 mm, and a thickness of 1 mm. The side of the board facing the light source should be coated with a black flat lacquer to absorb at least 90% of the total incidence. The temperature measurement of the blackboard is made by a platinum resistance sensor located in the center of the plate.

Over Temperature Protection	Over Current Protection	Humidifier Dry Combustion Protection
Water Shortage Protection	Earth Leakage Protection	Refrigerant High Pressure Protection
	Phase Sequence Protection	

**Protection System**

### Specimen Holder

- Special specimen holder can be customized

### Radiometer

### Demineralized Water Device

### Reverse Osmosis Unit

### Controller

- WiFi connection
- Mobile APP control
- Multi-language controller interface: Russian, French, Polish, Romanian, German

Install Condition

**Environment Conditions**  
 Temperature: +5°C ~ +35°C  
 Relative humidity: ≤85%;  
 Pressure: 86 KPa—106 KPa

**Space Conditions**  
 Sufficient space for ventilation

**\*Safety Instruction:**

1. Prohibited to test explosive, inflammable and high corrosive substance
2. Chemical exposure to the equipment is prohibited
3. Equipment must be safety on the ground to avoid electrostatic induction

## Packaging



First, seal chamber with waterproof plastic film. Protect chamber from seawater corrosion.  
 Second, buffer foam is placed in the four corners of the chamber. It is used for fixing equipment to prevent shaking and damaging chamber during transportation.



**Plywood:** standard wood export packaging. The wooden box is fixed by sheet metal to prevent damage during transportation.

Gross weight: 500kgs~  
 Package size: 1240\*1160\*2000 mm

## Warranty Condition

Our company will repair the product, if the product, the material of the parts, the design and manufacturing of the products raised hardware problems caused by product itself rather than human error within three years warranty period since the date of dispatching by the customer.

Our company repairs the products, but will collect the basic costs of the spare parts after the warranty period, but service is free always.

## Shipping



**Material:** Export standard wooden box

\*Can be used for Sea, Air, Railway, Truck and multimodal transport.

## Warranty & Service

- 3 Years Warranty, Lifelong Follow-up Services

**Professional After-sales Team**  
 If you have any questions during operation, we will supply solution to you with 24 hours.

## How to Service

1. At first, our test chambers are produced based on 20 years product lifetime.

Normally once test chambers have problems, we judge the problems, and send spare parts to our customers, and teach them how to change new parts on by email or video, all spare parts and shipping cost (by DHL, TNT, and FedEx) paid by LIB.

2. If the customer needs our engineer on-site service, they only need pay the ticket accommodation to our Engineers, service is for free.

3. If products still can't use after our engineers repair, we will produce a new test chamber (same as the old one) to our customers with no charge.

## PROVIDING TEST SOLUTION, PROVIDING TEST EQUIPMENT

Xi'an LIB Environmental Simulation Industry is a lead provider of environmental test chamber in China, with its own brand (LIB) design, production, sales and service since 2009. We continually update technology and develop new products for customer's needs.

Our main products included temperature and climate test chambers, corrosion chambers, weathering testers, IP dust and rain chambers, ozone test chamber, noxious gas SO2 H2S chamber, walk-in chambers. We provide test chamber, we provide test solution. Standard and customized products to meet different customer needs.

By 2018, global market has spread to 53 countries to USA, Canada, Mexico, Brazil, Peru, Russia, German, UK, France, Finland, Netherlands, Poland, Switzerland, Thailand, Philippines, Singapore, Malaysia, Australian, South Africa etc. and the market continues to expand.

At present 7 Tier-one agents around the world provide LIB products, installation and maintenance service for customers. Make things simple and convenient.

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